UXOPro

15 Park Avenue
Gaithersburg. MD 20877

# Memorandum

**From:** Steve Willis
**To:** Wayne Miller
**Date:** April 4, 2018
**Subject:** April 4, 2018 Site visit to observe site activities at Former Williams Air Force Base.

Mr. Miller:

I conducted a site visit to the Former Williams Air Force Base on April 4, 2018 to observe and document drilling activities associated with the investigation of Per- and PolyfluoroAlkyl Substances (PFAS), as well as groundwater sampling activities at Site ST012.

**Drilling Activities**

Drilling of well WILPMW012 continued, obtaining a depth of 171 ft. A minor perched water zone was encountered in sandy soil from approximately 136- to 139.5 ft. bgs overlying a dry silt/clay layer extending to approximately 154.5 ft. Soil moisture increased below 154.5 ft. to the total depth of the borehole at 171 ft. bgs. Water level measurements conducted during drilling operations showed that the perched zone did not appear to provide a sustained water yield. As a result, a decision was made to screen the well in the lower water-bearing zone. The final well screen interval would be determined once the Aerostar geologist completed logging the borehole.

Soil samples for PFAS analysis were collected above the perched zone at 134-136 ft. bgs, and at 152-154 ft. bgs, immediately above the lower water-bearing zone. The highest PID reading recorded in the boring was 4.4 ppm at 165 ft. bgs.

**ST012 Groundwater Sampling**

AMEC personnel were onsite to complete deployment of BioTrap® samplers and collect groundwater samples. However, when attempting to collect groundwater samples from well LSZ10, the Solinst sampler failed again, as it had the previous day. As a result, no samples were collected, and no BioTrap samplers were deployed.

Attachment 1 includes site photos taken during the visit.

Please contact me at (480) 316-3373 or e-mail at steve@uxopro.com if you have comments or questions regarding this memorandum.

Thank you,

Steve Mill

UXOPro, Inc.

**ATTACHMENT 1**
**SITE PHOTOS**

Photo 1. Soil cuttings showing the perched water zone from approximately 136 – 139 feet below ground surface.

Photo 2. Bottom of the silt/clay layer underlying the perched water zone. Dry soils transitioning to moist soils at approximately 154.5-ft. bgs

Photo 3. Moist soils from 156 to 159-ft. bgs.

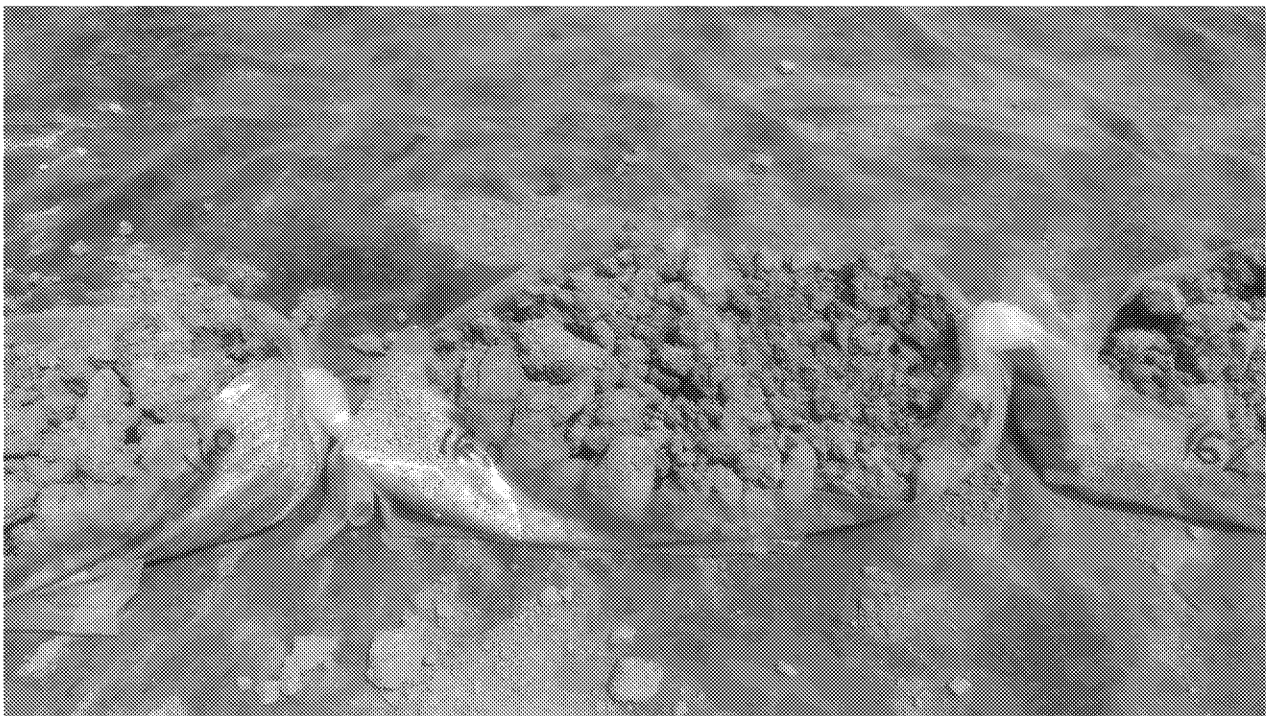

Photo 4. Moist soils from approximately 160 to 162-ft. bgs.

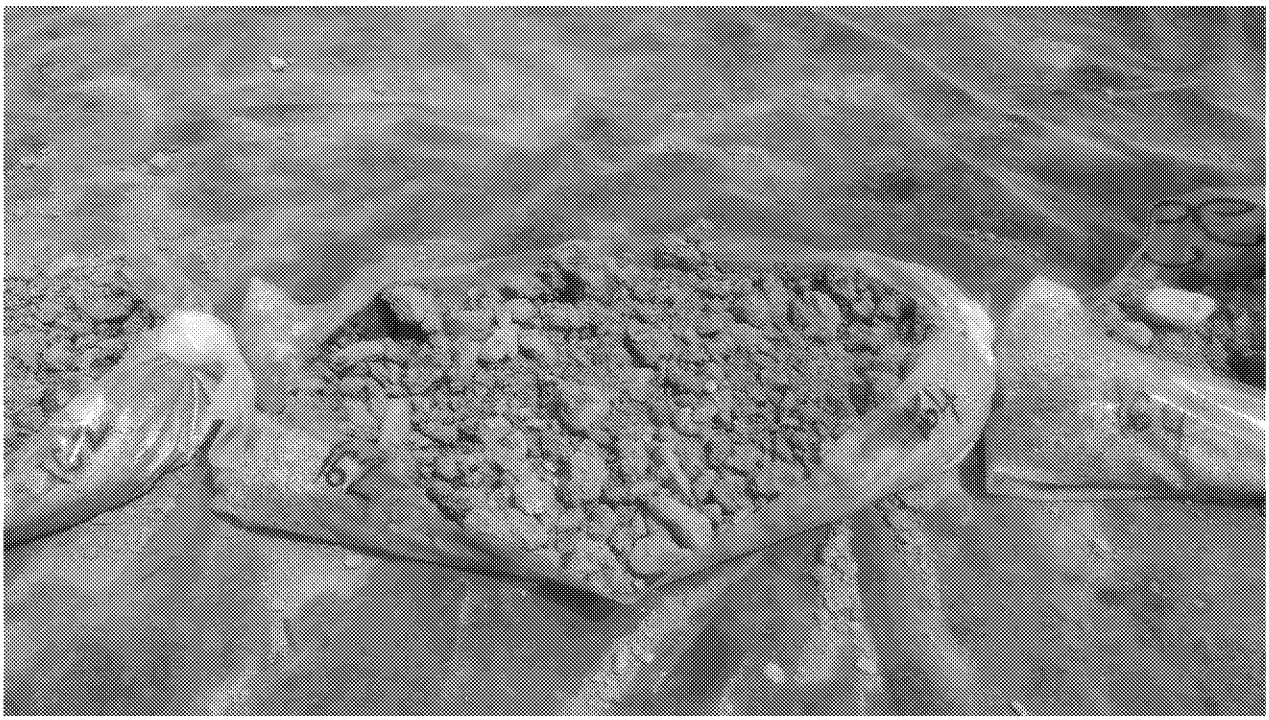

Photo 5. Moist soils from approximately 162 to 164-ft. bgs.

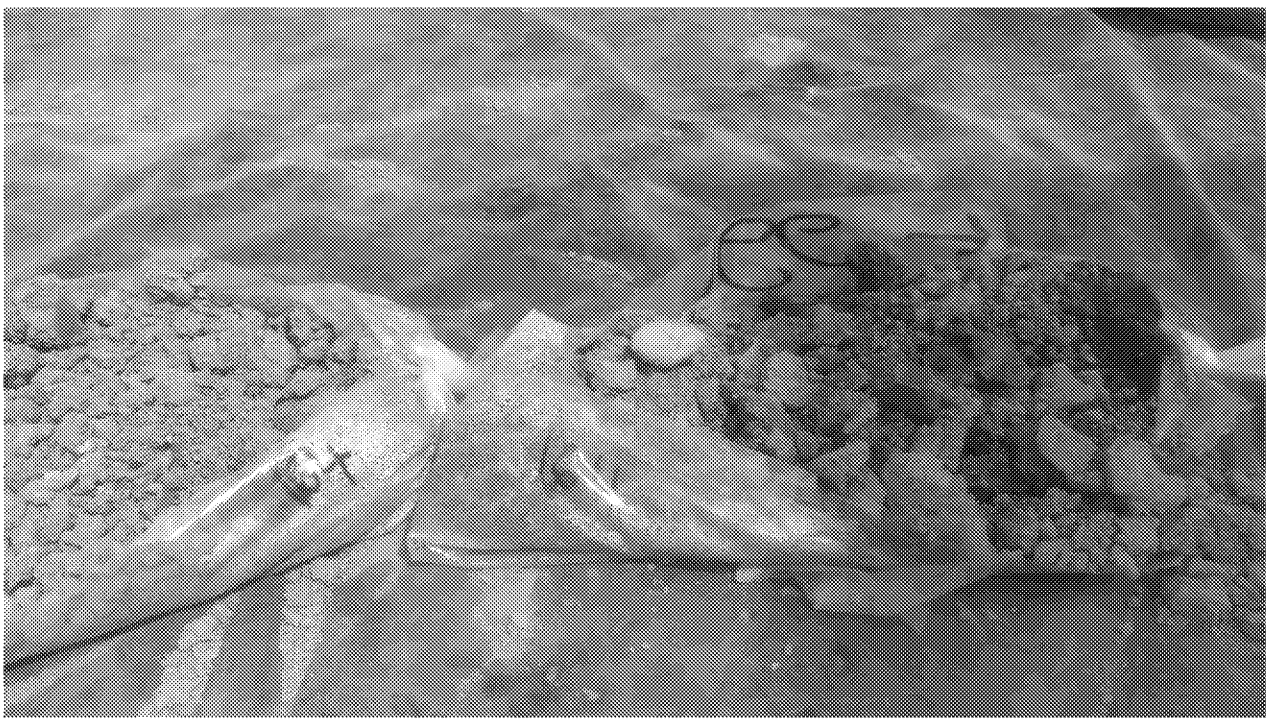

Photo 6. Moist soils from approximately 164 to 166-ft. bgs.

Photo 7. Soil cuttings from approximately 167 to 170-ft. bgs showing increasing moisture with depth.

Photo 8. Soil cuttings from the bottom of the borehole at approximately 170 to 171-ft. bgs.